

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 12 74 9401

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	JP S55 36643 A (NTN TOYO BEARING CO LTD) 14 March 1980 (1980-03-14)	1-5,7	INV. F16C33/64 F16C33/60 F16C33/04 F16C33/14 B23D31/00 ADD. F16C19/26
A	* figure 4a *	6	
Y	JP 4 042999 B2 (KOYO SEIKO CO) 6 February 2008 (2008-02-06)	1-5,7	
A	* figure 4b *	6	
Y	DE 43 06 280 A1 (KREBSOEGE GMBH SINTERMETALL [DE]) 8 September 1994 (1994-09-08) * column 2, line 48 *	1	
Y	JP S59 212524 A (NTN TOYO BEARING CO LTD) 1 December 1984 (1984-12-01) * paragraph [0001] *	1	
Y	JP 2002 256394 A (DAIDO STEEL CO LTD) 11 September 2002 (2002-09-11) * paragraph [0011] *	1	
Y,D	JP H11 43738 A (AICHI STEEL WORKS LTD; TOYOTA MOTOR CORP) 16 February 1999 (1999-02-16) * paragraph [0027] *	2	TECHNICAL FIELDS SEARCHED (IPC) F16C
Y	JP 2010 071438 A (MAZDA MOTOR) 2 April 2010 (2010-04-02) * paragraph [0020] *	2	
Y	JP H04 357325 A (NTN TOYO BEARING CO LTD) 10 December 1992 (1992-12-10) * figure 1E *	7	
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search The Hague		Date of completion of the search 31 May 2017	Examiner Vesselinov, Vladimir
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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31-05-2017

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP S5536643 A	14-03-1980	JP S5536643 A	14-03-1980
		JP S6116851 B2	02-05-1986
JP 4042999 B2	06-02-2008	DE 19824258 A1	11-11-1999
		JP 4042999 B2	06-02-2008
		JP H10184674 A	14-07-1998
DE 4306280 A1	08-09-1994	BR 9404302 A	15-06-1999
		DE 4306280 A1	08-09-1994
		EP 0638147 A1	15-02-1995
		JP 3547744 B2	28-07-2004
		JP H07506661 A	20-07-1995
		US 5536089 A	16-07-1996
		WO 9420765 A1	15-09-1994
JP S59212524 A	01-12-1984	JP S6148010 B2	22-10-1986
		JP S59212524 A	01-12-1984
JP 2002256394 A	11-09-2002	JP 5023410 B2	12-09-2012
		JP 2002256394 A	11-09-2002
JP H1143738 A	16-02-1999	NONE	
JP 2010071438 A	02-04-2010	JP 5252371 B2	31-07-2013
		JP 2010071438 A	02-04-2010
JP H04357325 A	10-12-1992	JP 3046645 B2	29-05-2000
		JP H04357325 A	10-12-1992